

B<sup>2</sup>  
11 29. (Added) A milk product derived from an animal raised by feeding said animal a feed material, wherein said feed material comprises cultured microbial organisms containing omega-3 highly unsaturated fatty acid in an amount effective to increase the content of omega-3 highly unsaturated fatty acid in said milk product.

SubC 1  
30. (Added) The milk product of Claim 29, wherein said cultured microbial organisms have a higher average amount of omega-3 highly unsaturated fatty acid than the average for naturally-occurring organisms of the same genus.

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31. (Added) The milk product of Claim 29, wherein said milk product is selected from the group consisting of milk, cheese and butter.

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32. (Added) The milk product of Claim 29, wherein said animal is selected from the group consisting of cows, sheep, goats, bison, buffalo, antelope, deer and camels.

5  
33. (Added) The milk product of Claim 29, wherein said animal is selected from the group consisting of cows, sheep and goats.

<sup>6</sup>  
34. (Added) The milk product of Claim <sup>1</sup>29, wherein said feed material is protected from degradation in a rumen of said animal.

<sup>7</sup>  
35. (Added) The milk product of Claim <sup>6</sup>34, wherein said feed material is coated with a protein.

<sup>8</sup>  
36. (Added) The milk product of Claim <sup>1</sup>29, wherein said feed material comprises an element selected from the group consisting of Thraustochytriales, omega-3 highly unsaturated fatty acid extracted from Thraustochytriales, and mixtures thereof.

<sup>9</sup>  
37. (Added) The milk product of Claim 36, wherein said feed material comprises microorganisms of the genus *Thraustochytrium* and/or *Schizochytrium* in whole cell form.

38. (Added) The milk product of Claim 36, wherein said Thraustochytriales is obtained by a direct fermentation of grain, corn syrup or agricultural/fermentation byproducts by *Thraustochytrium* and/or *Schizochytrium*.

<sup>11</sup>  
39. (Added) The milk product of Claim <sup>10</sup>38, wherein said grain is selected from the group consisting of corn, sorghum, rice, wheat, oats, rye and millet.

12<sup>28</sup><sub>40</sub>. (Added) The milk product of Claim ~~36~~<sup>38</sup>, wherein said feed material further comprises a dry ground grain.

13<sup>12</sup><sub>41</sub>. (Added) The milk product of Claim ~~40~~<sup>42</sup>, wherein said feed material contains less than about 40% water.

14<sup>12</sup><sub>42</sub>. (Added) The milk product of Claim ~~40~~<sup>42</sup>, wherein said feed material is prepared by extrusion.

15<sup>11</sup><sub>43</sub>. (Added) The milk product of Claim ~~29~~<sup>31</sup>, wherein said feed material contains omega-6 highly unsaturated fatty acid in an amount effective to increase the content of omega-6 highly unsaturated fatty acid in said milk product.

16<sup>1</sup><sub>44</sub>. (Added) The milk product of Claim ~~29~~<sup>31</sup>, wherein said milk product is consumable by humans.

17<sup>1</sup><sub>45</sub>. (Added) A milk product derived from an animal raised by feeding said animal a feed material comprising an element selected from the group consisting of Thraustochytriales, omega-3 highly unsaturated fatty acid extracted from Thraustochytriales, and mixtures thereof in an amount effective to increase the content of omega-3 highly unsaturated fatty acid in said milk product.

B<sup>2</sup>  
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Sub C3  
46. (Added) The milk product of Claim 45, wherein said feed material comprises microorganisms of the genus *Thraustochytrium* and/or *Schizochytrium* in whole cell form.

B<sup>2</sup>  
cont.  
47. (Added) The milk product of Claim 45, wherein said *Thraustochytriales* is obtained by a direct fermentation of grain, corn syrup or agricultural/fermentation byproducts by *Thraustochytrium* and/or *Schizochytrium*.

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48. (Added) The milk product of Claim 47, wherein said grain is selected from the group consisting of corn, sorghum, rice, wheat, oats, rye and millet.

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49. (Added) The milk product of Claim 45, wherein said milk product is selected from the group consisting of milk, cheese and butter.

22  
50. (Added) The milk product of Claim 45, wherein said animal is selected from the group consisting of cows, sheep and goats.

Sub C4  
51. (Added) A milk product derived from an animal raised by feeding said animal a feed material comprising an element selected from the group consisting of *Thraustochytrium*, *Schizochytrium*, omega-3 highly unsaturated fatty acid extracted from said *Schizochytrium* and/or said